Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

Claim 1 (previously presented): A method of diagnosing cancer in a patient comprising assaying a sample of urine supernatant from a patient for the presence or absence of survivin, wherein the presence of survivin in the sample indicates that the patient has cancer.

Claim 2 (canceled)

Claim 2 (previously presented): The method of claim 1, wherein the cancer is a cancer invading the genitourinary tract.

Claim 3 (original): The method for claim 2, wherein the genitourinary tract cancer is bladder or prostate cancer.

Claim 4 (previously presented): The method of claim 3, wherein the bladder or prostate cancer is graded as a CIS (Carcinoma *in situ*).

Claim 5 (original): The method of claim 3, wherein the bladder or prostate cancer is any grade or any stage.

Claim 6 (original): The method of claim 1, wherein survivin is detected using an agent selected from the group consisting of antibodies that bind survivin, survivin binding partners, and nucleic acids that hybridize to a nucleic acid encoding survivin.

Claim 7 (original): The method of claim 6, wherein the agent is tagged with a label.

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Claim 9 (original): The method of claim 8, wherein the label is a radioactive label, a fluorescent label, an enzyme, or a chemiluminescent tag.

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Claim 10 (original): The method of claim 1, wherein survivin is detected by an immunoassay.

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Claim 11 (original): The method of claim 10, wherein the immunoassay is an enzyme linked immunosorbent assay or radioimmunoassay.

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Claim 12 (original): The method of claim 10, wherein the immunoassay comprises immunoblotting, immunodiffusion, immunoelectrophoresis, or immunoprecipitation.

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Claim 13 (original): The method of claim 1, wherein survivin is detected by dot blotting.

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Claim 14 (original): The method of claim 13, wherein dot blotting comprises using a Bio-Dot SF module.

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Claim 15 (original): The method of claim 1, wherein survivin is detected by nucleic acid hybridization.

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Claim 16 (original): The method of claim 15, wherein the nucleic acid hybridization is RT-PCR or Northern blot analysis.

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Claim 17 (previously presented): A kit for the diagnosis, prognosis, or monitoring of cancer, comprising a container for collecting urine supernatant from a patient and an agent that detects the presence of survivin in the urine supernatant.

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Claim 18 (original): The kit of claim 17, wherein the agent is selected from the group consisting of antibodies that bind survivin, survivin binding partners, and nucleic acids that hybridize to the nucleic acid encoding survivin.

Claim ~~19~~ 18 (original): The kit of claim ~~18~~ 17, wherein the agent is tagged with a label.

Claim ~~20~~ 19 (original): The kit of claim ~~18~~ 17, wherein the label is a radioactive label, a fluorescent label, an enzyme, or a chemiluminescent tag.

Claim ~~21~~ 20 (original): The kit of claim ~~17~~ 16, wherein the agent is packaged in an aqueous medium or in lyophilized form.

Claim ~~22~~ 21 (previously presented): The kit of claim ~~17~~ 16, further comprising a component for analyzing the presence of survivin.

Claim ~~23~~ 22 (original): The kit of claim ~~17~~ 16, wherein the cancer is bladder or prostate cancer.

Claim 24 (canceled)

Claim ~~25~~ 23 (currently amended): A method of determining the grade of a cancer in a patient comprising quantitating the amount of survivin in a sample of urine supernatant from a patient and comparing the amount of survivin in the sample with the amount of survivin in control samples to determine the grade of the cancer in the patient.

Claim ~~26~~ 24 (currently amended): A method of determining the stage of a cancer in a patient comprising quantitating the amount of survivin in a sample of urine supernatant from a patient and comparing the amount of survivin in the sample with the amount of survivin in control samples to determine the stage of the cancer in the patient.

Claim ~~27~~ 25 (currently amended): A method of monitoring cancer in a patient comprising quantitating the amount of survivin in a sample of urine supernatant from a patient and comparing the amount of survivin in the sample with the amount of survivin in control samples to determine the grade of the cancer in the patient, thereby monitoring cancer in a patient.

Claim 28 (canceled):

Claim 29 (original): The method of claim 1, wherein the cancer is any cancer that expresses survivin.

Claim 30 (canceled):

Claim 31 (original): The method of claim 1, wherein the cancer is new onset cancer or recurrent cancer.

Claim 32 (original): The method of claim 25, wherein the amount of survivin is quantitated by detecting survivin RNA.

Claim 33 (original): The method of claim 32, wherein the survivin RNA is detected by nucleic acid hybridization.

Claim 34 (original): The method of claim 33, wherein the nucleic acid hybridization is RT-PCR or Northern blot analysis.

Claim 35 (original): The method of claim 26, wherein the amount of survivin is quantitated by detecting survivin RNA.

Claim 36 (original): The method of claim 35, wherein the survivin RNA is detected by nucleic acid hybridization.

Claim 37 (original): The method of claim 36, wherein the nucleic acid hybridization is RT-PCR or Northern blot analysis.

Claim 34 (original): The method of claim 25, wherein the amount of survivin is quantitated by detecting survivin RNA.

Claim 35 (original): The method of claim 34, wherein the survivin RNA is detected by nucleic acid hybridization.

Claim 36 (original): The method of claim 35, wherein the nucleic acid hybridization is RT-PCR or Northern blot analysis.

Claim 37 (original): The method of claim 1, wherein the presence or absence of survivin is detected by detecting the presence or absence of survivin RNA.

Claim 38 (original): The kit of claim 16, wherein the presence of survivin is detected by detecting survivin RNA.